



TIMBER SALE PRESCRIPTION

GENERAL	
Date 02-14-2012	Forest, Mineral and Fire Management Unit Gaylord FMU - South
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 45, Stands 1, 6, & 20

LOCAL CONTACT	
Name Kimberly Lentz	Telephone (989) 732 - 3541
Email Address lentzk@michigan.gov	FAX (989) 731 - 6214

Map of Project Area Attached

LEGAL DESCRIPTION
T31N R5W Section(s) 3 & 10 Description Sec.3 N1/2 & S1/2SE1/4 & Sec.10 N1/2NE1/4

Year of Entry: 2012 Compartment(s):45 Stand Number(s): 1,6,20

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE
Estimated Acres: 209 Source: <input checked="" type="checkbox"/> OI <input type="checkbox"/> GPS <input type="checkbox"/> Other _____

Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
1	4110 Sugar Maple Assoc	79	138	Single Tree Selection	Sugar Maple Association
6	4110 Sugar Maple Assoc	56	125	Single Tree Selection	Sugar Maple Association
20	4110 Sugar Maple Assoc	74	117	Single Tree Selection	Sugar Maple Association

PRESCRIPTION
<ol style="list-style-type: none"> 1. Mark stands 1,6, & 20 to reduce BA to an average of 80 sq.ft. using single tree selection/crop tree release marking. 2. Due to BBD, mark out most rough barked beech. Favor leaving smooth barked beech for crop trees 3. Mark out Ash with evidence of EAB or trees that appear high risk. 4. Release pockets of advanced hardwood regeneration, where applicable. 5. Leave minor species such as elm, hemlock, under-represented species, snags and den trees. 6. On steep slopes, mark the draws and accessible ridge tops only, leave steep hills unmarked. 7. Create an area of retention in the northeast corner of stand 1 to protect seep & spring. The retention should extend across the trail road to the boundary of stand 2. No marking should occur in area with seep or spring. Delineate Retention with red paint and GPS acreage. 8. Leave large trees suitable for raptors & other wildlife. 9. Protect trees with stick nests, and report to DNR. 10. Mark out merchantable Aspen during single tree selection. Leave some aspen suitable for living den trees.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
None	

CONTRACT WORK CAN BEGIN

Immediately Date: 04/01/2012

CONTRACT WORK MUST BE COMPLETED BY Date 09/01/2012

PAINT LINE WORK

This is included in the bid This is not included in the bid

Paint line work to be performed: (See attached map for locations)

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR	
Private boundary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Retention area in northeast corner of stand 1 to delineate with red paint and GPS acreage.

Standards for marking lines against private land

No blue lines or private boundary within this marking contract.

AREA CALCULATION

This is included in the bid This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Mark a red painted boundary around the perimeter of stands 1,6, & 20. Provide DNR representative with corresponding GPS maps and acreage based on a scale of 1:15840.

TIMBER CRUISING SPECIFICATIONS

This is included in the bid This is not included in the bid

Required Basal Area Factor: 10 20 Other:

Cruise Line Directions As determined by contractor.

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 1	1.4 ac.per plot 57 plots	3.5chs. X 4 chs.
Stand 6	1.4 ac.per plot 40 plots	3.5chs. X 4 chs.
Stand 20	1.3 ac.per plot 57 plots	3.25chs. X 4 chs.
TOTAL NUMBER OF CRUISE POINTS	154 plots	

Cruise Special Instructions:

Mark and tally logs 100%. Mark and point sample cruise all pulpwood. Sugar Maple, Red Maple, Birch, Beech, White Ash, and Black Cherry pulp can be combined as mixed hardwood pulp. All other pulp species, and Basswood and Aspen must be cruised separately. Residual BA must be tallied at each cruise point. Each sample point is to be recorded and clearly marked on the ground for the contract administrator to locate and review.

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

TIMBER MARKING SPECIFICATIONS

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Precise specifications to be delineated at pre-work meeting with DNR staff

Total Merchantable Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90)

TREATMENT			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	X Plus one dot per 8' log	10" class	8"
Sawbolts	N/A	N/A	N/A
Pulpwood	/ Slash	4.6 inches	4 inches

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other		

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
All sawlogs, all species	1 : 1

SPECIAL MARKING INSTRUCTIONS

Mark on both sides of the tree. On hills, marks should face the downward slope. Manage for the best tree in place, but favor leaving sugar maple and basswood for crop trees, and remove poorly formed and defective trees. Beech bark disease is in this compartment so mark out rough bark beech and leave smooth barked trees for residual crop trees. Some living den trees can also be left for wildlife. For sawlog trees, paint dots on one side of the tree only to represent the number of 8' logs tallied. The other side will be marked with an X. Stump marks are to be placed from the ground up one foot and clearly visible. Do not mark on rainy days or with snow around the stumps. With clump grown trees with multiple stems, treat it as one tree by marking entire clump or leaving entire clump.

Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.

RESTRICTIONS

1. Forest Resource Division must be able to identify who did what on the timber sale.
2. The contractor may not have more than two markers in one payment unit without prior approval.
3. Each marker should have an assigned area to mark (not strips).

PAINT

1. Call Kimberly Lentz at (989) 732 - 3541 ext: 5442, to make arrangements for paint.
2. Paint will be supplied from Gaylord Field Office.
3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
4. The DNR will not be available on weekends or evenings.

DELIVERABLES

1. A list of names that marked or cruised each payment unit.
2. A summary of paint used (in quarts).
3. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
4. GPS files for any GPS work.